

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or it expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-305 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

| | |
|----------------------|---|
| Permittee Name: | Consolidated Glass & Mirror Corporation |
| Facility Name: | Plant No. 2 |
| Facility Address: | 110 Jack Guynn Drive, Galax VA |
| DEQ Registration No: | 11085 |
| Permit Number: | SWRO11085 |
| Effective Date: | March 18, 2002 |
| Expiration Date: | March 18, 2007 |

Robert G. Burnley, Director
Department of Environmental Quality
Signature Date: March 18, 2002

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I. Facility Information

Permittee

Consolidated Glass & Mirror Corporation
P.O. Box 389
Galax, VA 24333

Responsible Official

Mr. Dennis Carroll
(276) 236-5196

Contact Person

Mike Sizemore

Facility

Plant No. 2
110 Jack Gwynn Drive, Galax, VA

NET Identification Number: 51-640-00067

Facility Description: SIC 3231 – Glass Products, Made of Purchased Glass

Consolidated Glass & Mirror Corporation manufactures glass mirrors at their Plant #2, in Galax, Virginia. Sheets of glass are delivered to the plant and fed onto the silver line where they are transformed into mirrors on a constantly moving conveyor line. The top surface of the glass is cleaned with water and automated rotating brushes and is then lightly etched with cerium oxide. The cerium oxide roughens the surface of the glass and improves chemical adhesion. A tin sensitizer solution chemically bonds the silver solution (which produces the reflective mirror surface) to the glass. A copper solution is applied over the silver solution to improve the adhesion of the mirror backing paint to the reflective mirror surface. The mirrors are then heated in an electric oven. The heated mirrors pass through a continuously flowing curtain of paint at the curtain coater. The backing paint is applied over the reflective metals to protect them from environmental conditions (moisture). The viscosity of the backing paint is constantly monitored and additional solvent is added as needed. The mirror back painting process is responsible for the majority of the VOC emissions from the facility.

After exiting the curtain coater, the mirrors are dried in a series of infrared ovens that encompass a section of the conveyor line. The mirrors are allowed to cool slightly before entering the rotogravure, which applies an ultra-violet (UV) coating over the backing paint to protect and improve its durability. UV light is used to cure the UV coating. Ink lettering may be applied to the back of the mirror, depending on the customer's wishes.

The mirrors are then unloaded from the conveyor line and inspected for flaws. The mirrors may then be sent directly to shipping or to any of the various cutting, grinding, and/or beveling operations at the facility.

Emission sources at the facility include the tin sensitizer sprays, the curtain coater (mirror

backing paint), glass cutting lubricant, and glass grinding & beveling coolant.

The facility contains one 1,060,000 Btu/hr propane-fired boiler, forty-three propane-fired space heaters with a combined rated capacity of 5,379,000 Btu/hr, six 125,000 Btu/hr propane-fired space heaters, four Weben Jarco propane-fired water heaters with a combined rated capacity of 2,520,000 Btu/hr, and one propane-fired water heater rated at 550,000 Btu/hr located in the truck wash building.

The facility is a Title V major source of VOC, xylene, ethyl benzene, and total hazardous air pollutant (HAP) emissions. This source is located in an attainment area for all criteria pollutants. The facility is currently permitted under a minor NSR Permit issued on October 23, 2001 (as amended November 29, 2001).

II. Emission Units

Equipment to be operated consists of:

| Emission Unit ID | Stack ID | Emission Unit Description | Size/Rated Capacity | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|--|----------|---|-----------------------|--|--------|----------------------|--|
| Fuel Burning Equipment (all propane-fired) | | | | | | | |
| 3.A | 3.A | Ace Buchler model B11E boiler | 1.06 mmBtu/hr | - | - | - | NSR permit issued 10/23/2001 (as amended 11/29/2001) |
| 3.B | n/a | Cox Radiant 100-6 space heater | 0.15 mmBtu/hr | - | - | - | |
| 3.C | n/a | Carrier 48 HD008-6 space heater | 0.203 m4mBtu/hr | - | - | - | |
| 3.D | n/a | (40) Cox Radiant 125-6 space heaters | 0.125 mmBtu/hr each | - | - | - | |
| 3.E | 3.05 | Weben-Jarco AJH-CN35 water heater (1989) | 0.35 mmBtu/hr | - | - | - | |
| 3.F | 3.06 | Weben-Jarco AJH-CN50 water heater (1989) | 0.5 mmBtu/hr | - | - | - | |
| 3.G | 3.07 | Weben-Jarco AJH-CN70 water heater (1989) | 0.7 mmBtu/hr | - | - | - | |
| 3.H | 3.08 | Weben-Jarco AJH-CN97 water heater (1989) | 0.97 mmBtu/hr | - | - | - | |
| 3.I | 3.09 | Farleys GEM-4SLP water heater | 0.55 mmBtu/hr | - | - | - | |
| Tin Sensitizer Spray Process | | | | | | | |
| 1.A | 1.A | Sommer and Maca tin sensitizer spray bars | 108 gallons per hour | - | - | - | NSR permit issued 10/23/2001 (as amended 11/29/2001) |
| Curtain Coater – Mirror Back Painting | | | | | | | |
| 1.B | 1.B | Sommer and Maca mirror backing paint curtain coater | 40 gallons per minute | - | - | - | NSR permit issued 10/23/2001 (as amended 11/29/2001) |

| Emission Unit ID | Stack ID | Emission Unit Description | Size/Rated Capacity | Pollution Control Device (PCD) Description | PCD ID | Pollutant Controlled | Applicable Permit Date |
|--------------------------------------|----------|--|----------------------|--|--------|----------------------|--|
| Rotogravure UV Roll Coater | | | | | | | |
| 1.C | 1.C | Sommer and Maca rotogravure UV roll coater | 7 lbs./hr | - | - | - | NSR permit issued 10/23/2001 (as amended 11/29/2001) |
| Glass Cutting | | | | | | | |
| 2 | - | Lubricant for Bystronic Glass Cutting Machine | 2 lbs./hr | - | - | - | NSR permit issued 10/23/2001 (as amended 11/29/2001) |
| Glass Grinding & Beveling | | | | | | | |
| 4 | - | Coolant for glass grinding & beveling operations | 200 gallons per week | - | - | - | NSR permit issued 10/23/2001 (as amended 11/29/2001) |

III. Fuel Burning Equipment (Unit ID No. 3)

A. Limitations

1. The approved fuel for the space heaters, water heaters, and the boiler is propane. A change in the fuel may require a permit to modify and operate (9 VAC 5-80-10, 9 VAC 5-80-110 B and Condition 3 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))
2. The combined emissions from the operation of the forty-nine (49) propane-fired space heaters, the five (5) propane-fired water heaters, and propane-fired boiler shall not exceed the limits specified below:

| | | |
|--|-------------|--------------|
| Total Suspended Particulate/PM ₁₀ | 0.14 lbs/hr | 0.60 tons/yr |
| Sulfur Dioxide (SO ₂) | 0.18 lbs/hr | 0.80 tons/yr |
| Nitrogen Oxides (as NO ₂) | 1.08 lbs/hr | 4.73 tons/yr |
| Carbon Monoxide | 0.27 lbs/hr | 1.20 tons/yr |
| Volatile Organic Compounds | 0.05 lbs/hr | 0.24 tons/yr |

(9 VAC 5-50-260, 9 VAC 5-80-110 B and Condition 14 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

B. Monitoring and Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to, the combined annual consumption of propane in the forty-nine (49) propane-fired space heaters, five (5) propane-fired water heaters, and the propane-fired boiler (as listed in Condition 2 of the NSR permit issued October 23, 2001 (as amended November 29, 2001)), calculated as the sum of each consecutive twelve (12) month period. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Condition 15 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

The periodic monitoring requirements for the propane-fired space heaters, water heaters, and boiler shall be accomplished through the recordkeeping requirements listed above.

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Regulated Pollutant | Reference Method | Regulated Pollutant | Reference Method |
|---------------------|------------------|---------------------|-----------------------|
| PM | Method 5 | NO _x | Method 7 |
| PM ₁₀ | Method 201A | CO | Method 10 |
| SO ₂ | Method 6 | VOC | Methods 18 & 25 - 25E |

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.
(9 VAC 5-80-110)

IV. Tin Sensitizer Spray Process (Unit ID No. 1.A)

A. Limitations

The tin sensitizer spray process (Unit ID No. 1.A) shall consume no more than 0.96 lbs/hr and 5398 lbs/yr of the tin halide sensitizer solution, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-50-320, 9 VAC 5-80-110 B and Condition 26 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

B. Monitoring and Recordkeeping

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Southwest Regional Office. These records shall include, but are not limited to, the monthly and annual consumption of tin halide sensitizer solution. Hourly consumption shall be calculated by dividing the total monthly consumption by the corresponding hours of unit operation. Annual consumption shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-320, 9 VAC 5-80-110 B, and Condition 32 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

The periodic monitoring requirements for the tin sensitizer spray process (Unit ID No. 1.A) shall be accomplished through the recordkeeping requirements listed above.

V. Curtain Coater / Mirror Back Painting (Emission Unit ID No. 1.B)

A. Limitations

1. The curtain coater mirror back painting operation (Unit ID No. 1.B) shall consume no more than 24.0 lbs/hr and 48.3 tons/yr of reducer, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-10, 9 VAC 5-80-110 B and Condition 4 of the NSR permit issued

October 23, 2001(as amended November 29, 2001))

2. The curtain coater mirror back painting operation (Unit ID No. 1.B) shall consume no more than 177.9 lbs/hr and 391.0 tons/yr of paint, calculated as the sum of each consecutive twelve (12) month period. Only paints identified as UC57354 Gray Mirror Back CC Paint; UC 57460, Betashield 5000 (07280207 and 07280177), Valspar 900X100, Sureguard D900X170 Gray Low Lead Rollcoat; or their equivalents, may be utilized in the curtain coating mirror back painting operation. The volatile organic compound (VOC) content of the paint shall not exceed 44.57% by weight.
(9 VAC 5-80-10, 9 VAC 5-80-110 B and Condition 5 of the NSR permit issued October 23, 2001(as amended November 29, 2001))
3. The curtain coater mirror back painting operation (Unit ID No. 1.B) shall consume no more than 24.0 lbs/hr and 48.3 tons/yr of xylene, ethyl benzene, or equivalent reducer, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-50-320, 9 VAC 5-80-110 B and Condition 25 of the NSR permit issued October 23, 2001(as amended November 29, 2001))
4. Initial performance tests shall be conducted for xylene and ethyl benzene emissions from the curtain coater mirror back painting operation (Unit ID No. 1.B), flash-off, and oven exhaust stacks to determine compliance with the emission limits contained in Conditions V.A.5 and V.A.6. The tests shall be performed, and demonstrate compliance, within 60 days after achieving the maximum production rate but in no event later than 180 days after initiating use of xylene and/or ethyl benzene reducer. Tests shall be conducted and reported and data reduced as set forth in 9 VAC 5-50-30 of State Regulations, and the test methods and procedures contained in each applicable section or subpart listed in 9 VAC 5-50-410. The details of the tests are to be arranged with the Director, Southwest Regional Office. The permittee shall submit a test protocol at least thirty (30) days prior to testing. Three (3) copies of the test results shall be submitted to the Director, Southwest Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30, VAC 5-50-320, 9 VAC 5-80-110 B, and Condition 24 of the NSR permit issued October 23, 2001 (as amended November 29, 2001)))
5. Xylene emissions from the exhausts on the curtain coater mirror back painting process line shall not exceed the respective limits specified below:

| | | |
|--------------------------------------|--------------|---------------|
| Curtain Coater | 1.90 lbs/hr | 5.54 tons/yr |
| Flash-Off | 24.14 lbs/hr | 70.29 tons/yr |
| Oven | 0.41 lbs/hr | 1.19 tons/yr |
| Total (including fugitive emissions) | 34.00 lbs/hr | 99.00 tons/yr |

The allowable xylene emission rates specified above are based on the assessment of n-butyl acetate emissions from stack test data for Plant No. 2. The results obtained in the xylene/ethyl benzene stack testing required in Condition V.A.4 may necessitate a change in the allowable xylene emission rates.

(9 VAC 5-50-320, 9 VAC 5-80-110 B, and Condition 27 of the NSR permit issued October 23, 2001 (as amended November 29, 2001)))

6. Ethyl benzene emissions from the exhausts on the curtain coater mirror back painting process line shall not exceed the respective limits specified below:

| | | |
|--------------------------------------|--------------|---------------|
| Curtain Coater | 1.51 lbs/hr | 4.42 tons/yr |
| Flash-Off | 19.17 lbs/hr | 56.09 tons/yr |
| Oven | 0.32 lbs/hr | 0.95 tons/yr |
| Total (including fugitive emissions) | 27.00 lbs/hr | 79.00 tons/yr |

The allowable ethyl benzene emission rates specified above are based on the assessment of n-butyl acetate emissions from stack test data for Plant No. 2. The results obtained in the xylene/ethyl benzene stack testing required in Condition V.A.4 may necessitate a change in the allowable ethyl benzene emission rates. (9 VAC 5-50-320, 9 VAC 5-80-110 B, and Condition 28 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

7. Emissions from the operation of the curtain coater mirror back painting operation (Unit ID No. 1.B) shall not exceed the limitations specified below:

| | | |
|--------------------------------------|---------------|----------------|
| Volatile Organic Compounds | 103.29 lbs/hr | 222.57 tons/yr |
| Triethylamine | 0.36 lbs/hr | 0.78 tons/yr |
| Formaldehyde | 0.07 lbs/hr | 0.15 tons/yr |
| <u>Glycol Ethers:</u> | | |
| 2-Butoxy Ethanol | 1.78 lbs/hr | 3.91 tons/yr |
| Diethylene glycol mono-n-butyl ether | 8.90 lbs/hr | 19.55 tons/yr |

Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-50-320, 9 VAC 5-80-110 B, and Conditions 10 and 29 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

B. Monitoring and Recordkeeping

The permittee shall maintain a monthly and annual material balance for the curtain coater mirror back painting operation (Unit ID No. 1.B) including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive

twelve (12) month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Condition 15 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

The periodic monitoring requirements for the curtain coater mirror back painting operation (Unit ID No. 1.B) shall be accomplished through the recordkeeping requirements listed above.

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Regulated Pollutant | Reference Method |
|---------------------|---------------------|
| VOC | EPA Methods 24, 24a |

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.

(9 VAC 5-80-110)

VI. Rotogravure UV Roll Coater (Emission Unit ID No. 1.C)

A. Limitations

1. The rotogravure UV coating process (Unit ID No. 1.C) shall consume no more than 25 lbs/hr and 73 tons/yr of the Fenzi S.P.A. Topcoat UV 1 coating or its equivalent, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-10, 5-80-110 B, and Condition 6 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

2. Emissions from the operation of the rotogravure UV coating process (Unit ID No. 1.C) shall not exceed the limitations specified below:

| | | |
|----------------------------|-------------|--------------|
| Volatile Organic Compounds | 2.75 lbs/hr | 8.03 tons/yr |
|----------------------------|-------------|--------------|

Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Condition 11 of the NSR permit issued October 23, 2001 (as amended November 29, 2001)))

B. Monitoring and Recordkeeping

The permittee shall maintain a monthly and annual material balance for the rotogravure UV coating process (Unit ID No. 1.C) including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period.

These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Condition 15 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

The periodic monitoring requirements for the rotogravure UV coating process (Unit ID No. 1.C) shall be accomplished through the recordkeeping requirements listed above.

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Regulated Pollutant | Reference Method |
|---------------------|---------------------|
| VOC | EPA Methods 24, 24a |

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.
(9 VAC 5-80-110)

VII. Glass Cutting Operations (Emission Unit ID No. 2)

A. Limitations

1. The glass cutting operations (Unit ID No. 2) shall consume no more than 65.0 lbs/hr and 10.0 tons/yr of mineral spirits or equivalent lubricant, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-10, 5-80-110 B, and Condition 7 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

2. Emissions from the glass cutting operations (Unit ID No. 2) shall not exceed the limitations specified below:

| | | |
|----------------------------|--------------|---------------|
| Volatile Organic Compounds | 65.00 lbs/hr | 10.00 tons/yr |
|----------------------------|--------------|---------------|

Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Condition 12 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

B. Monitoring and Recordkeeping

The permittee shall maintain a monthly and annual material balance for the glass cutting operations (Unit ID No. 2) including the throughput and emissions of VOC. Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Condition 15 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

The periodic monitoring requirements for the glass cutting operations (Unit ID No. 2) shall be accomplished through the recordkeeping requirements listed above.

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Regulated Pollutant | Reference Method |
|---------------------|---------------------|
| VOC | EPA Methods 24, 24a |

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.
(9 VAC 5-80-110)

VIII. Glass Grinding & Beveling Operations (Emission Unit ID No. 4)

A. Limitations

1. The glass grinding & beveling operations (Unit ID No. 4) shall consume no more than 13.9 lbs/hr and 80.0 tons/yr of Quaker Microcut 106-C, or equivalent coolant, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-10, 5-80-110 B, and Condition 8 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

2. Emissions from the circulation and storage of the glass coolant shall not exceed the limitations specified below:

| | | |
|---------------------------------|-------------|--------------|
| Volatile Organic Compounds | 1.39 lbs/hr | 8.00 tons/yr |
| 2-Butoxy Ethanol (glycol ether) | 0.70 lbs/hr | 4.00 tons/yr |

Annual emissions are to be calculated as the sum of each consecutive twelve (12) month period.

(9 VAC 5-50-260, 9 VAC 5-80-110 B, and Conditions 13 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

B. Monitoring and Recordkeeping

The permittee shall maintain a monthly and annual material balance for the glass coolant used in the glass grinding & beveling operations (Unit ID No. 4), including the throughput and emissions of VOC and 2-butoxy ethanol (glycol ether). Hourly throughput (or emissions) shall be calculated by dividing the total monthly throughput (or emissions) by the corresponding hours of unit operation. Annual throughput and emissions shall be calculated as the sum of each consecutive twelve (12) month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Conditions 15 and 32 of the NSR permit issued

October 23, 2001 (as amended November 29, 2001))

The periodic monitoring requirements for the glass grinding & beveling operations (Unit ID No. 4) shall be accomplished through the recordkeeping requirements listed above.

C. Testing

If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Regulated Pollutant | Reference Method |
|---------------------|---------------------|
| VOC | EPA Methods 24, 24a |

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.
(9 VAC 5-80-110)

IX. Facility-Wide Limitations

A. Mirror Production

The annual production of mirrors shall not exceed 52 million square feet, calculated as the sum of each consecutive twelve (12) month period.
(9 VAC 5-80-10, 5-80-110 B, and Condition 9 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

B. Opacity

No owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any hour of not more than 30% opacity. Failure to meet these requirements due to the presence of water vapor shall not be seen as a violation.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

C. Violation of Ambient Air Quality Standard

1. The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard, and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I, 9 VAC 5-80-110 B, and Condition 19 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))
2. Any process subject to the provisions of 9 VAC 5-50-160 et seq. (toxics) shall shut down immediately upon request of the board if its emissions increase in any amount because of a bypass, malfunction, shutdown or failure of the facility or its associated pollution control equipment. The affected process shall not return to operation until it can be operated in the proper manner.
(9 VAC 5-20-180 F.3, 9 VAC 5-80-110 B, and Condition 31 of the NSR permit issued

October 23, 2001 (as amended November 29, 2001))

D. Equipment Maintenance and Operating Procedures

In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:

1. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance. These records shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
2. Maintain an inventory of spare parts that are needed to minimize the duration of air pollution control equipment breakdowns.

(9 VAC 5-50-20 E, 9 VAC 5-80-110, and Condition 20 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

E. Recordkeeping

The permittee shall maintain records of the yearly throughput of mirrors, calculated as the sum of each consecutive twelve (12) month period. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50, 9 VAC 5-80-110 B, and Condition 15 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

F. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Upon the request of the board, the owner shall provide, or cause to be provided, emissions testing facilities to include: adequate sampling ports; safe sampling platforms with safe access; and utilities for sampling and testing equipment.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

| Regulated Pollutant | Reference Method |
|---------------------|-------------------------|
| VOC | EPA Methods 18. 25. 25a |
| NO _x | EPA Method 7 |
| SO ₂ | EPA Method 6 |
| CO | EPA Method 10 |
| PM/PM ₁₀ | EPA Methods 5, 17 |
| Visible Emissions | EPA Method 9 |

The Department and EPA have the authority to require testing not included in this permit, if necessary to determine compliance with an emission limit or standard.
(9 VAC 5-80-110)

X. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

| Emission Unit No. | Emission Unit Description | Citation | Pollutant Emitted (5-80-720 B.) |
|-------------------|---|-------------------|---------------------------------|
| 26 | UV Cleanup - MEK | 9 VAC 5-80-720 B2 | MEK / VOC |
| 28 | Muriatic Acid (regeneration of deionizers and cleaning filter cloths in filter press) | 9 VAC 5-80-720 B6 | Hydrochloric Acid |
| 60 | Defoamer (Coolant Pit and Wastewater Treatment) | 9 VAC 5-80-720 B2 | VOC |
| 64 | Hydraulic Oil | 9 VAC 5-80-720 B2 | VOC |
| 65 | Parts Washer | 9 VAC 5-80-720 B2 | VOC |
| 69 | UV Ink (Printing on Mirror Back) | 9 VAC 5-80-720 B2 | VOC |
| 70 | Rubber Adhesive (Attach particle board mirror backing) | 9 VAC 5-80-720 B2 | VOC |
| 71 | Rubber Adhesive (Attach particle board mirror backing) | 9 VAC 5-80-720 B2 | VOC |

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

XI. Permit Shield and Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this

permit. Had there been any requirements specifically identified as being not applicable to this permitted facility, those requirements would also have been covered by the permit shield.

Nothing in this permit shield shall alter the provisions of § 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to § 114 of the federal Clean Air Act, (ii) the Board pursuant to § 10.1-1314 or § 10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to § 10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

XII. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent with 9 VAC 5-80-80, has been submitted, to the Department, by the owner, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen (18) months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant

section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, a "deviation" means any condition determined by observation, data from any monitoring protocol or any other monitoring which is required by the permit that can be used to determine compliance. Deviations include exceedances documented by continuous emission monitoring or excursions from control performance indicators documented through periodic or compliance assurance monitoring.(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to § 114(a)(3) and § 504(b) of the

federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. A description of the means for assessing or monitoring the compliance of the source with its emissions limitations, standards, and work practices.
3. The identification of each term or condition of the permit that is the basis of the certification.
4. The status of compliance with the terms and conditions of this permit for the certification period.
5. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
6. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
7. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Southwest Regional Office, within four daytime business hours of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the occurrence, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition XII.C.3 of this permit.

(9 VAC 5-80-110 F.2)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours, notify the Director, Southwest Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown.

Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Southwest Regional Office in writing.

(9 VAC 9 VAC 5-20-180 C, 9 VAC 5-80-110 B, and Condition 18 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.

(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(9 VAC 5-80-110 G.4)

2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:

- a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is the potential of, a resulting emissions increase;
- b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;

- c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emission cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
- d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
- e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and by 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.
(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

- 1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
- 2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355.
(9 VAC 5-80-110 H)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without

taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited, to the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, oil, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-50-50)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
(9 VAC 5-170-130, 9 VAC 5-80-110 K.2, and Condition 16 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

R. Reopening For Cause

The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.

3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.

(9 VAC 5-80-160, 9 VAC 5-80-10 O, and Condition 21 of the NSR permit issued October 23, 2001 (as amended November 29, 2001))

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F 2 b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The board may suspend, under such conditions and for such period of time as the board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A - F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required, under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

AA. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.
2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.

(9 VAC 5-80-110 I)